IN THE UNITED STATES DISTRICT COURT 2 FOR THE WESTERN DISTRICT OF NORTH CAROLINA CHARLOTTE DIVISION 3 NO. 3:10-CV-125 4 TAMMY LOU FONTENOT, as 5 Administratrix of the Estate of 6 DARRYL WAYNE TURNER. deceased, 7 Plaintiffs. 8 v. 9 TASER INTERNATIONAL, Inc., 10 Defendant. 11 12 13 14 DECLARATION OF GARY M. VILKE, M.D., FACEP, FAAEM 15 I, Gary M. Vilke, state the following: 16 I am a competent adult and have personal knowledge of the following 1. 17 facts. 18 2. Attached hereto is a true and accurate copy of my expert report submitted 19 in the Tammy Lou Fontenot, et al. v. TASER International, Inc. litigation. Experts in my field reasonably and customarily rely on the facts and 20 materials underlying my opinions. My opinions are expressed to a reasonable degree of medical certainty. 21 I affirm under penalties of perjury that the foregoing statements are true. 3. 22 23 24 Gary M. Vilke, M.D., FACEP, FAAEM 25 26

EXHIBIT

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Garv M. Vilke, M.D., FACEP, FAAEM San Diego, California 92131

November 30, 2010

RE: Tammy Lou Fontenot v. TASER International, Inc., et al.

I. Introduction

I am a board-certified emergency department physician with substantial experience in sudden cardiac arrest and sudden cardiac death, including my service as the Medical Director of the American Heart Association Training Center at the University of California, San Diego Center for Resuscitation Science for the past three years. I am also an independent researcher on the effects of TASER electronic control devices (ECDs) on humans, and am knowledgeable of the state of medical and scientific research on ECDs. I have been retained as an expert in this lawsuit by John Maley of the law firm of Barnes & Thornburg, to review relevant materials and provide expert opinion on the matter, including the state of the medical and scientific literature as of the date of the incident, March 20, 2008, and today, and to consider and render expert opinion on the cause of Darryl Turner's death. After careful review, it is my opinion to a reasonable degree of medical certainty that it is not established in the medical and scientific literature, as of May 20, 2008 or today, that TASER ECDs applied to humans cause ventricular fibrilation. Furthermore, it is my opinion to a reasonable degree of medical certainty that Mr. Turner's cardiac arrest was not caused by application of a TASER ECD. These opinions and related opinions are set forth in this expert report.

II. Materials Reviewed

I have reviewed extensive materials pertaining to the above referenced case. This includes, but is not limited to:

A. Medical and Scientific Literature Relating to ECDs

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Strote J, et al. Conducted Electrical Weapon Use by Law Enforcement: An Evaluation of Safety and Injury. J Trauma. 2009 Dec 22. [Epub ahead of print].

VanMeenen KM, Cherniack, NS, Bergen, MT, et al. Cardiovascular Evaluation of Electronic Control Device Exposure in Law Enforcement Trainees: A Multisite Study. JOEM 2010. [Epub ahead of print].

Vilke GM, Sloane CM, Suffecool A, Kolkhorst FW, Neuman TS, Castillo EM, Chan TC. Physiologic effects of the TASER after exercise. Acad Emerg Med. 2009 Aug;16(8):704-10.

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B. Case-Specific Materials.

- 1) TASER's Answer to Complaint
- 2) Autopsy Report and other ME Docs Mecklenburg County M E Office
- 3) EMS Documents (Medic Mecklenburg EMS Agency)
- 4) Charlotte Fire Department Documents
- 5) TASER Download and analysis/ sale documents
- 6) TASER's Responses to Requests for Admission
- 7) TASER's Answers to Interrogatories
- 8) Police Department Administrative Review
- 9) Photographs
- 10) DVD of Excerpts of Video
- 11) Interview of Officer J. Dawson (used TASER device)
- 12) Interview of Officer J.A. Pryor
- 13) Interview of Customer Services Manager Mary Blackert

- 14) Interview of Manager Antwan Wesley
- 15) Interview of Joe Willis and Statement Witness
- 16) Interview of Constance Hood Employee
- 17) Interview of Kim Weathers Customer
- 18) Interview and Affidavit of Dewey Wilson Witness
- 19) Interview of Syhesia Moore Customer
- 20) Interview of James Dodd Vendor
- 21) Interview of Satonia Judon Customer
- 22) Interview of Timothy Wallace Employee
- 23) Interview of Koua Thao Employee
- 24) Interview of Christine Hickling Customer
- 25) Interview of Andrea Parise Employee
- 26) Interview of Amanda Hill Loss Prevention for Food Lion
- 27) Interview of Kathlynn Miller Customer
- 28) Interview of Suzanne Marson Customer
- 29) Statement of Officer Almond
- 30) Statement of Det. W.T. Brandon
- 31) Narrative statement of Major K.T. Graue
- 32) Narrative statement of Off. B.P. Langford
- 33) Narrative statement of Off. B.R. Downs
- 34) Narrative Statement of Off. Quates
- 35) Narrative Statement of Off. Meadows
- 36) Narrative Statement of Off. G.S. John
- 37) Narrative Statement of Off. Kulp
- 38) Narrative Statement of Off. Dodd

- 39) Narrative Statement of Off. Nelson
- 40) Narrative Statement of Off. Farmer
- 41) Narrative Statement of Off. Phelps
- 42) Narrative Statement of Sgt. Kraeger
- 43) Narrative Statement of Capt. Lester
- 44) Narrative Statement of Capt. Zinkann
- 45) Narrative Statement of Det. Rainwater
- 46) Narrative Statement of Maj. Medlock
- 47) Narrative Statement of Det. Fant
- 48) Narrative Statement of Det. Holmes
- 49) Narrative Statement of Sgt. Robbins
- 50) Narrative Statement of Det. Santiago (Timeline included)
- 51) Narrative Statement of Off. Dawson (used TASER)
- 52) Narrative Statement of Off. Savage
- 53) Narrative Statement of Maj. Maglione
- 54) Narrative Statement of Sgt. Holshouser
- 55) Narrative Statement of Sgt. Henson
- 56) Narrative Statement of Det. Ward
- 57) Narrative Statement of Det. Manassah
- 58) Narrative Statement of Off. Jolly
- 59) Narrative Statement of Det. Kelly
- 60) Narrative Statement of Det. Martin
- 61) Narrative Statement of Off. Maye
- 62) Narrative Statement of Off. Hopkins

- 63) Police Department Incident Report
- 64) Police Department Property Reports
- 65) Additional Police Department Investigation Records
- 66) Crossroads Charter High School Records
- 67) CMS School Records
- 68) Deposition of Captain Brian E. Barr
- 69) Deposition of Paramedic Michael Moore
- 70) Deposition of Firefighter Thomas Williams
- 71) Deposition of Officer Joseph Pryor, Jr.
- 72) Heart rhythm strips from medics
- 73) Heart Start Recording
- 74) Deposition of Mark Kroll, PhD, FACC, FHRS
- 75) Autopsy photographs
- 76) Kevin Freeman, M.D., medical records
- 77) Photographs of prescription bottle
- 78) Deposition of Thomas D. Owens, M.D.
- 79) Deposition of Tammy Lou Fontenot
- 80) Charlotte Mecklenburg Police Department Papering Verification and Narrative Supplement
- 81) Deposition of Officer Jerry Dawson, Jr.
- 82) Rite Aid #11494 records
- 83) Food Lion Records
- 84) CMC University Medical Records (MED6)
- 85) Carolina Medical Medical Records (MED5)
- 86) Expert report by James R. Stone, MD, PhD
- 87) Expert report by Douglas P. Zipes, MD

III. Analysis

After reviewing the above listed materials, it appears that on March 20, 2008, Darryl Turner was in an agitated state, was confrontational with store management at his place of employment after being confronted about shoplifting earlier and his general appearance upon return from lunch, was encountered by police and received two TASER® X26™ Electronic Control Device (ECD) activations (37 seconds and 5 seconds) and suffered a cardiac arrest. He was treated by paramedics and transported to the hospital, but ultimately died. Given this history, there are a number of issues that need to be addressed in more detail. All opinions given are to a reasonable, or higher, degree of medical or scientific certainty or probability based on the information currently available.

TASER ECDs. There is a great deal of unwarranted concern of electrocution based on lay misunderstanding of the reported 50,000 volts (V) peak open arcing voltage used by TASER handheld ECDs. TASER handheld ECDs deliver only a fraction of the 50,000 V to the body. In the case of the TASER X26 ECD, the mean delivered pulse voltage is 580 V.

However, it is not the voltage, but the sustained current or amperage, or delivered electrical charge, that actually creates a risk for electrical injury. For example, the static electricity from walking across a carpet can generate 30,000 to 100,000 V. However, the average and actual delivered electrical current of the TASER X26 ECD is only about 1.9 milliamperes (mA) (or, 0.0019 amperes (A)) and the peak current is only about 3 A. By way of comparison, a TASER M26TM ECD has a peak current of about 17 A; an International Electrotechnical Commission (IEC) Level IV static electricity shock has a peak current of 30 A; a Christmas tree light string will have on average current of 0.4 A or 400 mA, which is about 200 times the average (or actual) delivered current of the TASER X26 ECD.

The stored energy in the TASER X26 ECD is about 0.36 joules (J) per pulse (J/pulse), and the delivered energy is about 0.1 J/pulse, with the comparison of an automatic external cardiac defibrillator (AED) used by many times per day by paramedics using 360 J, over 3000 times greater than the X26 ECD. Or, the American Heart Association (AHA) Pediatric Advanced Life Support (PALS) Guidelines that call for 2–9 joules per kilogram (J/kg) for infants and children. Thus, for a 5 kg (11 pound) infant PALS states that 10–45 J have been found effective "with negligible adverse effects."

Or, if one thinks about it, this limited amount of delivered electrical energy able to be transferred to a person makes sense as the TASER X26 ECD is only powered by a battery of two 3 V cells (Duracell CR123s), commonly used in some small digital cameras, not an electrical outlet or power generator. It is the TASER ECDs rapid cycling that can cause the subjects' muscles to contract at about 19 times a second that can offer the effective incapacitation of the subject in probe mode, or painful compliance in drive-stun mode, while still offering a significant safety margin from electrical injury.

Once the energy from an ECD is turned off, the subject is back to his physical baseline. Mr. Turner was reported by bystanders and the officer to have signs of being alive after the initial TASER ECD activation. He was reported to be breathing and sounded like he was crying. Another witness said he was still conscious. The download data from the TASER ECD reflects that he received a 37 second initial TASER ECD activation followed a short time later by a 5 second activation.

Though muscle activity from the TASER ECD has been shown to increase lactic acid levels and CPK levels over time, much like a basic seizure, the activity of a struggle and physical exertion will increase these levels to a much greater level than a TASER ECD. In my opinion, Mr. Turner was destined to die, whether or not the TASER ECD was used to subdue him, because if the TASER ECD was not used, there would have been a physical altercation, causing an even more increased physiologic load on Mr. Turner's heart with the same net result.

In addition, Mr. Turner had hypertrophic cardiomyopathy of his heart noted in the expert report by Dr. James Stone, a cardiovascular pathologist. This physical enlargement of the heart in and of itself can place an individual at increased risk for cardiac arrest and sudden death. Given the agitated state that Mr. Turner created when police were called because he refused to leave the premises, along with his enlarged heart, he was a ticking time bomb at risk to go into cardiac arrest whether the police used a TASER ECD or not. Mr. Turner was not following commands and based on the review of the video, appeared that if a TASER ECD was not deployed, a physical altercation with police would have ensued. I base part of this on the fact that once the TASER ECD was activated, most non-violent, non-aggressive people would have complied with police commands so that the painful stimuli would be turned off. Instead, Mr. Turner's aggressive nature (initially throwing an umbrella and papers prior to the arrival of police) accelerated. He, while receiving the TASER ECD activation, continued to walk away from the officer and grabbed a metal shopping bag rack and threw it. This was aggressive and agitated behavior.

This increased physical activity and exertion from the agitation can induce a cardiac dysrhythmia in a person with hypertrophic cardiomyopathy. Once the heart goes into an irregular beat, blood flow through the body ceases and shortly thereafter, the subject will lose consciousness due to lack of blood flow to the brain and then stop breathing.

It should also not be overlooked that Mr. Turner, upon returning from his lunch break was found with marijuana in his possession and was noted to be have red eyes that was interpreted by the police officer at scene as consistent with drug use. The medical examiner's report did not note any illicit drugs in Mr. Turner's system, but the assay used by the medical examiner's office did not test for marijuana. Given the abnormal heart findings of hypertrophic cardiomyopathy as noted by Dr. Stone, marijuana in and of itself has been reported to cause death in patients with cardiac abnormalities, so if it was actually present it certainly did not help Mr. Turner's heart and should be considered in the cause of death.

Another question that arises is whether the TASER ECD, itself, can cause ventricular fibrillation (VF) in a human subject. TASER ECDs have been extensively researched. I have undertaken significant independent research on TASER ECDs, and am knowledgeable of peer-reviewed medical and scientific research on TASER ECDs conducted by others. In fact, I was the lead author on work requested by the American Academy of Emergency Medicine (AAEM) to review the totality of the peer reviewed published medical literature and come to conclusions regarding the necessary emergency department evaluation of patients being seen after receiving a ECD activation. As of March 20, 2008 and today, no peer-reviewed published scientific or medical literature concluded that TASER ECDs cause ventricular fibrillation or cardiac dysrhythmias in humans.

or cardiac dysrhythmias in swine, but swine fibrillate more easily than humans, and those studies do not conclude that ECDs cause ventricular fibrillation or dysrhythmias in humans. There is no X26 ECD human study that has found, or even shown, a single incident of cardiac capture or negative cardiac effect. There is no animal study that has shown X26 ECD induction of cardiac arrest in under 70 seconds of exposure. No animal study has shown an X26 ECD to directly cause cardiac arrest without infusion of catecholamines. As of March 20, 2008 and today, no peer-reviewed published scientific or medical literature concluded that TASER ECDs kill humans, except for secondary factors such as injuries from falls or the ignition of flammable fumes or fluids from the ECD arc.

Moreover, more than 1.15 million volunteer subjects have undergone TASER ECD activations, and none have ever been reported to develop VF or die. In the case of Mr. Turner, the distance between the probes was measured as 3.5 inches apart by the medical examiner. This is not much father apart than when the TASER ECD is used in drive stun mode, with a distance of 1.6 inches. It is this close distance between the probes that made Mr. Turner able to continue to walk and throw the rack while the TASER ECD was being activated. In this mode, it was essentially acting as a drive stun, basically a painful stimuli with no evidence of neuromuscular dissociation from more diffuse electrical energy spread. The probes were too close together to incapacitate Mr. Turner. As noted earlier, the TASER ECD in probe mode has never been noted to cause VF or death. Same with the drive stun mode. The TASER ECD in in such close probe spread in Mr. Turner effectively operated as a drive stun mode, and intuition and common sense would dictate that this would raise even less of a question of the TASE ECD being involved in Mr. Turner's death. Just because a TASER ECD was being used in proximity to his death, does not imply causation.

Also, both ECD probes were in a perpendicular line on the right side of Mr. Turner's chest. There has not been a single reported incident of cardiac effect in the literature in animals or humans where the probes did not encompass the heart including at least one probe on the left side of the chest. Additionally, the ECD cartridge used on Mr. Turner was a 21-foot cartridge with serial number T06-1034682 that has 9-millimeter (mm) probes. There is no report in the literature, animal or human, where an ECD with a 9 mm probe caused a cardiac effect. Furthermore, the medical examiner reports that the two ECD probes penetrated Mr. Turner's right chest only to a distance of "1/8th inch" (which is less than 4 mm). Again, there is nothing in the animal or human literature that has found that a probe depth of 4 mm has been shown to affect the heart.

Additionally, if Mr. Turner suffered an electrical injury from the TASER ECD inducing VF, the rapid response by EMS should have easily saved his life. There is significant medical literature that has shown that patients suffering a primary VF arrest from electrocution or a heart attack who receive prompt EMS care including CPR for several minutes before defibrillation (as was the case with Mr. Turner), the heart basically, in lay terms, just needs to be reset from VF to a regular rhythm using a defibrillator. The sooner this is done, the better the outcome. In my role as an emergency room physician and the Medical Director of the American Heart Association Training Center at the University of California, San Diego Center for Resuscitation Science, I have substantial experience with this subject of resuscitation and defibrillation. In this case, EMS was already en route as part of the police department's protocol to have EMS evaluation of all TASER ECD activations. Based on the video, EMS arrived about 5 minutes after Officer Dawson arrived. Therefore, EMS was at the patient within minutes of the cardiac arrest and if purely and electrocution, should have been easily saved. Mr. Turner's underlying heart disease may have left

him less able to be converted back to a regular rhythm by the defibrillation attempts than if his heart was healthy.

Given his abnormal heart and that he became so agitated after being fired and told to leave the premises and then exhibiting such aggressive behavior, Mr. Turner, to a reasonable degree of medical certainty, was going to have a sudden cardiac arrest, whether a TASER ECD was used or not. If he had taken his anger elsewhere, started the same behavior there and got into a physical altercation with others, there would likely have been the same sudden death outcome, except with the absence of police and the TASER ECD.

Therefore, I agree with that portion of the Medical Examiner's report that states that Mr. Turner died as a result of an "acute ventricular arrhythmia" due to an "agitated state and stress." I do not agree that it is also due to the "use of conduced energy weapon (TASER)," but rather due to underlying hypertrophic cardiomyopathy. The medical examiner admitted that he could not state to a reasonable degree of medical certainty that the ECD contributed even .01%. I do not agree with Dr. Zipes methodology or opinions, including his reliance on non-peer-reviewed anecdotes that are not substantially similar to Mr. Turner's situation and that do not prove ECD causation of ventricular fibrillation in their own right nor in Mr. Turner's situation. And, the Nanthakumar paper (J Am College of Cardio, 2007) relied upon by Dr. Zipes for the epinephrine theory is not appropriate because the catecholamine infusion in that swine was many times that of what could be caused by an ECD exposure.

In support of the impact of a TASER ECD device on markers of stress in humans is work that was performed by our group (Vilke, Acad Emerg Med 2009 Aug;16(8):704-10.) comparing two

experimental groups of self-control subjects who were exercised to 85% of their maximal heart rate and then received a TASER ECD activation and then were tested with exercise alone. In both groups, the exercise alone elevated marker of stress without any significant elevations by the TASER ECD activation. And when comparing the marker of stress from a previous study in which a TASER ECD was used without exercise (Vilke, Ann Emerg Med 2007 Nov;50(5):569-75. Epub 2007 Aug 24), the stress marker was elevated multiple times in the exercise group alone compared with the TASER ECD only group. Adding on to supportive data about the much greater impact that physical exertion and altercations have on human physiologic stress markers is work by Ho, et al (Ho J, Acad Emerg Med 2010 Jul;17(7):e60-8) in which they studied subjects who were assigned to one of five task groups: 1) a 150-meter sprint and wall hurdle (simulated flight from arrest); 2) 45 seconds of striking a heavy bag (simulated physical resistance); 3) a 10-second TASER X26 ECD exposure; 4) a fleeing and resistance exercise involving a law enforcement dog (K-9); or 5) an oleoresin capsicum (OC) exposure to the face and neck. They measured serum catecholamines, pH levels, and serum lactate and found that the simulations of physical resistance and fleeing on foot led to the greatest changes in markers of acidosis and catecholamines.

IV. Background

My background is that I am a full time faculty member in the department of emergency medicine at the University of California, San Diego Medical Center. I am residency trained and board certified in Emergency Medicine. I work full time as a practicing clinician in the Emergency Department of a busy urban hospital. I also work for the medical center as the Director of Custody Services for the San Diego County Sheriff's Department Jail Medical Service where I oversee direct patient care,

interface between the jail clinical staff and the hospital staff, and have been involved in the process of utilization review.

As a physician working at both the jail and in the emergency department that is contracted to care for incarcerated patients, I have evaluated thousands of patients over the last ten years who have been arrested, received a TASER ECD activation, and/or have had sudden cardiac arrests. I have performed extensive clinical research on subjects who have received TASER ECD applications (articles included in my curriculum vitae) which includes having being involved with over 200 TASER ECD activations and have personally received multiple applications of the device. I have also been invited to lecture nationally and internationally on the topic of TASER ECDs and their physiological impacts on subjects. Given the frequency of use of this procedure by law enforcement and my own research interests, I regularly perform a complete review of the literature regarding restraint use, TASER ECDs and sudden death in custody.

Appendix A is a copy of my current Curriculum Vitae, which includes a list of all publications authored by me over the previous ten years. Appendix B is a list of all cases in which I have testified as an expert in trial or deposition within the preceding four years. I have not referred to any other specific sources beyond my own research and those listed in this report. Appendix C contains my and rate sheet. The knowledge base that I utilize has been developed over time from my years of clinical practice, reading and research, including specifically those articles that I have published myself in Appendix A.

Respectfully submitted,

en Me

Gary M. Vilke, M.D., FACEP, FAAEM
Professor of Clinical Medicine
Director, UCSD Custody Services
Director, Clinical Research for Emergency Medicine
University of California, San Diego Medical Center

CURRICULUM VITAE GARY MICHAEL VILKE, M.D., FACEP, FAAEM

HOME ADDRESS:

OFFICE ADDRESS:

San Diego, CA 92131

Department of Emergency Medicine

UCSD Medical Center 200 W. Arbor Drive

San Diego, CA 92103-8676

Phone: (619) 543-6210

Fax: (619) 543-3115 E-mail: gmvilke@ucsd.edu

PERSONAL:

Born !

n Cleveland, Ohio

Marital Status: Married, two children

EDUCATION:

Academic:

B.S. in Zoology, University of California, Berkeley

1983-88

Berkeley, California

Medical School:

M.D., University of California, San Diego School of Medicine

1988-92

La Jolla, California

Internship:

Department of Surgery

1992-93

University of California, San Diego Medical Center

San Diego, California

Residency:

Department of Emergency Medicine

1993-96

University of California, San Diego Medical Center San Diego, California (Chief Resident: 1995-96)

LICENSURE: California Medical License Number G-78057

BOARD CERTIFICATIONS:

National Board of Medical Examiners, 1993 American Board of Emergency Medicine, 1997, renewed 2007

APPOINTMENTS:

7/05 - Present	Professor of Clinical Medicine, University of California, San Diego (UCSD) School of Medicine
7/09 - Present	Chief of Staff, UCSD Medical Center (Vice Chief 7/07-6/09)
10/09 - Present	UCSD Department of Emergency Medicine Clinical Research Scholar Fellowship Director
4/07 – Present	Medical Director of the American Heart Association Training Center at the UCSD Center for Resuscitation Science
2/06 - Present	Director of Clinical Research, UCSD Medical Center, Department of Emergency Medicine
4/99 - Present	Director, Custody Services, UCSD Medical Center
7/96 - Present	Assistant Director, Department of Emergency Medicine, UCSD Medical Center
7/94 - Present	Base Hospital Physician, University of California Medical Center

PREVIOUS EXPERIENCE/APPOINTMENTS:

7/07-6/09	Vice Chief of Staff UCSD Medical Center
7/04 — 6/09	EMS/Disaster Medicine Fellowship Director, Department of Emergency
	Medicine.
3/02 - 2/06	Medical Director, San Diego County Emergency Medical Services
3/03 - 12/05	Medical Consultant, San Diego Chapter Red Cross Disaster Health Services
7/01 - 6/05	Associate Professor of Clinical Medicine, UCSD School of Medicine
6/04 - 2/05	Interim Chief, San Diego County Emergency Medical Services
1/01 - 2/04	Medical Director, Southwestern College Paramedic Training Program
7/00 - 2/04	Medical Director, Palomar College Paramedic Training Program
7/97 - 1/03	Director, Prehospital Services, UCSD Medical Center
6/97 - 1/03	Medical Director, Paramedic Base Hospital, UCSD Medical Center
7/96 - 1/03	Medical Director, Mercy Air Medical Transport Service, San Diego,
	California
7/96 - 6/01	Assistant Clinical Professor of Medicine, UCSD School of Medicine
4/99 - 3/01	Medical Co-Director, San Diego Central Jail Medical Services
1/96 - 7/96	Flight Physician, Mercy Air Medical Transport Service, San Diego, Califor
7/95 - 7/96	Associated Emergency Physicians Medical Group, San Diego, California
12/94 - 7/96	Kaiser Permanente Emergency Department, San Diego, California
10/94 - 7/96	Med America Health Resource Company, San Diego, California
4/94 - 7/95	Sharp-Rees-Stealy Urgent Care, San Diego, California
7/93 - 12/95	Flight Physician, Life Flight Air Medical Transport Service

HONORS AND AWARDS:

1990	Random House Medical Student Award
1996	American College of Emergency Physicians, California Chapter Challenge Bowl Winner
1996	Council of Residency Directors (CORD) Resident Academic Achievement Award
1996	Outstanding Emergency Medicine Resident
1996	UCSD Emergency Department Staff Support Award
1996	Journal of Emergency Medicine Outstanding Contribution Award
1999	"Golden Apple" Teaching Award, UCSD Emergency Medicine Residency Graduating Class of 1999
2000	Faculty of the Year, UCSD Emergency Medicine Residency Graduating Class of 2000
2000	Best Research Poster Presentation, California Chapter of the American College of Emergency Physicians (CAL/ACEP) Scientific Assembly, Dana Point, California
2000	Outstanding Scientific Abstract, State of California EMS Authority Annual Emergency Medical Services for Children Conference, San Diego, California, November 2000
2001	Best Oral Presentation, CAL/ACEP Scientific Assembly, Santa Clara, California
2004	Academy of Clinician Scholars, University of California San Diego
2004	Top Doctor in San Diego County, San Diego Magazine
2004	Top Peer Reviewer, Annals of Emergency Medicine
2005	Top Doctor in San Diego County, San Diego Magazine
2005	Clinical Investigation Institute, University of California San Diego
2006	Top Doctor in San Diego County, San Diego Magazine
2007	Finalist San Diego Business Journal Health Care Champion Award
2007	Top Doctor in San Diego County, San Diego Magazine
2007	Top Peer Reviewer, Annals of Emergency Medicine
2008	Top Doctor in San Diego County, San Diego Magazine
2008	UCSD Undergraduate Campus Outstanding Faculty Mentor of the Year
2009	Clinical and Translational Research Institute, Charter member
2009	Top Doctor in San Diego County, San Diego Magazine
2010	Top Doctor in San Diego County, San Diego Magazine

CERTIFICATIONS:

Basic Cardiac Life Support Instructor

Pediatric Advanced Life Support Provider

Advanced Cardiac Life Support Instructor

Advanced Trauma Life Support Provider

Hazardous Material Training, Level I

Advanced HAZMAT Life Support Provider

PROFESSIONAL SOCIETY MEMBERSHIPS:

American Medical Association, 1988-97

California Alumni Association, 1988

American College of Emergency Physicians, 1991-2000

Fellow, American College of Emergency Physicians, 2000

California Chapter of the American College of Emergency Physicians, 1991

Society for Academic Emergency Medicine, 1995

National Association of EMS Physicians, 1998

Fellow, American Academy of Emergency Medicine, 2000

California Chapter of the American Academy of Emergency Medicine, 2000

American Association of University Professors, 2002

California Conference of the American Association of University Professors, 2002

San Diego Faculty Association, 2002

San Diego County Medical Society, 2003

California Medical Association, 2003

PATENTS:

#WO 2010/011976 A2: Medication Delivery Devices Having Penetrable Sterility Barriers and Alignment Features (January 28, 2010)

#WO 2010/011976 A2: Medication Delivery Devices Having Penetrable Sterility Barriers and Alignment Features (January 28, 2010)

US 2010/011966 A2: Medication Delivery System (January 28, 2010)

US 2010/0022987 A1: Medication Delivery System (January 28, 2010)

CURRENT ACTIVITIES:

Member, Disaster Medical Assistance Team (CA-4), 1994

Objective Structured Clinical Examiner, Introduction to Clinical Medicine, UCSD School of Medicine, 1997

UCSD Alumni Preceptor, UCSD School of Medicine, 1997

Physician Member, San Diego County Metropolitan Medical Strike Team, 1998

Quality Assurance Reviewer, Department of Emergency Medicine, UCSD Medical Center, 1999

Evaluator, UCSD Physician Assessment and Clinical Evaluation (PACE) Program, 2000

Tactical EMS Care Provider for San Diego Sheriff's Special Enforcement Detail (SED), 2007

LIFESHARING, A Donate Life Organization Advisory Board, 2010

<u>Journals</u>

Associate Editor/Editorial Board, Journal of Emergency Medicine, Elsevier Science, Inc., 2007 (Editorial board since 2000; reviewer since 1994)

Editorial Board, Prehospital Emergency Care, Taylor & Francis Group, 2006 (Reviewer since 2004)

Senior Reviewer, Annals of Emergency Medicine, Mosby, 2007 (Reviewer since 1998)

Reviewer, Western Journal of Emergency Medicine, 2001

Reviewer, American Journal of Emergency Medicine, Elsevier Science, Inc., 2005

Reviewer, Emergency Medicine Journal, BMA House, 2006

Reviewer, Forensic Science International, 2007

Reviewer, California Journal of Emergency Medicine, 2007

Reviewer, Journal of the American Medical Association (JAMA), 2009

Reviewer, BioMedical Engineering OnLine, 2009

Reviewer, Bioelectromagnetics, 2010

Reviewer, Forensic Science, Medicine and Pathology, 2010

Reviewer, Psychology Research and Behavior Management, 2010

CURRENT ACTIVITIES, continued:

Content Expert

Reviewer, Practical Summaries in Acute Care, Thomson American Health Consultants, 2006 Expert Editorial Advisor, *Managing the Ankylosing Spondylitis Patient in an Emergency Setting for the* Spondylitis Association of America (SAA). 2008

Content Expert for Cable News Network (CNN), 2009

PREVIOUS ACTIVITIES:

Vice-President, California Chapter of Emergency Medicine Residents Association, 1994-95 Editor-in-Chief, California Chapter of Emergency Medicine Residents Association Newsletter, 1994-95

Co-Director, School of Medicine 225: Introduction to Emergency Medicine, UCSD School of Medicine, 1994-95

Reviewer, Journal of Emergency Medicine, Pergamon Press, 1994-2000 (now on editorial board)

Strike Team Leader, DMAT Olympics 1996 Biological & Chemical Antiterrorist Medical Support

Associate Editor, Journal of Emergency Medicine, Pergamon Press, 1996-97

Reviewer, European Journal of Epidemiology, Kluwer Academic Publishers, 1996-97

Director, Mercy Air Medical Transport Services Continuing Clinical Education, 1996-2003

Member, San Diego County 911 Dispatch Quality Review Board, 1997-98

Co-Director, University of California, San Diego School of Medicine, Course SOM 224I,

Pediatric Advanced Life Support Course, 1997-2002

Editor-in-Chief, UCSD Medical Center EMS Run Review, 1997-2003

Sponsor, Palomar College Emergency Medical Education Department Paramedic Training, 1997-2003

Medical Support Physician, Super Bowl XXXII, San Diego, California, January 25, 1998

Medical Support Physician, Suzuki Rock-n-Roll Marathon, San Diego, California, June 21, 1998

Marketing Director, California Chapter of the American College of Emergency Physicians (CAL/ACEP) Scientific Assembly, 1998-99

Member, Program Committee, CAL/ACEP Scientific Assembly, 1998-99

Howard Hughes Foundation Undergraduate Preceptor, 1998, 1999

Co-editor, Pearls from PAC Newsletter, 1998-2000

Preceptor, Introduction to Clinical Medicine 201-B, UCSD School of Medicine, 1999

EMS Team Leader, San Diego County Metropolitan Medical Strike Team, 1999

Co-Chair, Program Committee, CAL/ACEP Scientific Assembly, 1999-2000 and 2000-01

Member, San Diego County Bio-Terrorism Planning Group, 1999-2003

Moderator, EMS Poster Section, Western Regional Society for Academic Emergency Medicine Conference, Portland, Oregon, April 2000

Preceptor, California State University Dominguez Hills Statewide Nursing Program, 2000

Affiliate Faculty, Southwestern College Paramedic Training Program, 2000-03

PREVIOUS ACTIVITIES, continued:

Medical Director, EPIC "Eliminate Preventable Injuries of Children" Medics, San Diego County, 2000-03

San Diego Port District AED (Automated External Defibrillator) Program RPF Panel, 2001

Peer Reviewer, Pediatric Emergency Medicine Reports, 2001

Reviewer, Scientific Abstract Presentations, CAL/ACEP Scientific Assembly, 2001-02

Member, Board of Directors, CAL/ACEP, 2001-02

Moderator, Western Regional SAEM Research Presentations, San Diego, California, April 2002

Clinical Coordinator, Southwestern College Emergency Medical Technician Program, 2001-03

Santa Clara County/Regional Medical Center Trauma Designation Review Committee, 2004

San Diego County Health Services Capacity Issues Task Force, 2002-06

San Diego Regional Safety Consortium Inter-facility Transfer Protocol Task Force, 2004-06

San Diego Regional Fire Prevention Emergency Preparedness Task Force, 2004-2006

San Diego County Task Force on Fire Prevention, 2004-06

President-Elect, EMS Medical Director's Association of California, 2005-06

Medical Director, San Diego County Metropolitan Medical Strike Team, 1998-2008

CURRENT UCSD COMMITTEE MEMBERSHIPS:

Research Committee, Department of Emergency Medicine, 1997

UCSD Faculty Association, 2002

Quality Improvement Committee, Department of Emergency Medicine, 2002

UCSD/San Diego Sheriff Security Working Group, 2003

Quality Council Committee, 2003

Secretary-Treasurer, UCSD Academy of Clinician Scholars, 2005

UCSD Academy of Clinician Scholars Executive Committee, 2005

Chair, Medical Staff Executive Committee, 2009

UCSD Governance Advisory Committee, 2009

UCSD Department of Medicine Clinical Operations Redesign Enterprise (CORE) Initiative Team, 2009

UCSD Medical Center Syncope Task Force, 2010

PREVIOUS UCSD COMMITTEE MEMBERSHIPS:

Chair, Emergency Department Staffing Committee of Process Action Team, 1994-95

Hospital Infection Control Committee, 1994-95

Emergency Medicine Housestaff Association Representative, 1994-96

Emergency Department Clinical Practices Committee, 1994-96

Emergency Department Peer Review/Quality Assurance Committee, 1995-96

Emergency Department Critical Care Room Process Action Team, 1996

Paramedic/Emergency Department Interface Task Force, 1998-99

Emergency Department Staffing Committee, Department of Emergency Medicine, 1999

Credentials Committee, 1997-2000

Faculty Search Committee, Department of Emergency Medicine, 1999, 2000, 2002

Medical Director's Group, 1997-2002

Patient Care Review Committee, 2003

Medical Risk Management Committee, 2002-03

Patient Improvement and Outcome Committee, 2003-05

Medical Staff Executive Committee Reorganization Ad Hoc Committee, 2005

UCSD Phasing Strategy Ad Hoc Committee, 2005-06

Clinical Representative, Trauma Quality Assurance Program, 1998-2006

PREVIOUS UCSD COMMITTEE MEMBERSHIPS, continued:

Chair, Medical Risk Management Committee, 2003-2007 (member since 2002)

Medical Risk Management Executive Committee, 2003-2007

UCSD Medical Center Allocation Committee 2005-07

Patient Safety Committee, 2003-2007

Vice Chair, Medical Staff Executive Committee, 2007-2009

Chair, Patient Care and Peer Review Committee, 2007-2009 (member since 2005)

Trauma Multidisciplinary Committee, 2000-2009

Department of Medicine Committee on Advancement and Promotions (DOMCAP), 2007-09

CURRENT COMMITTEE MEMBERSHIPS:

Operations Committee, San Diego County Metropolitan Medical Strike Team, 1998

San Diego Central Jail Quality Assurance Committee, 1999

San Diego Central Jail Medical Oversight Committee, 1999

Training Committee, San Diego County Metropolitan Medical Strike Team, 2001

PREVIOUS COMMITTEE MEMBERSHIPS:

Practice Management Committee, CAL/ACEP, 1994-95

Research Subcommittee, San Diego County Prehospital Audit Committee, 1997-99

Prehospital RSI Task Force, San Diego County Prehospital Audit Committee, 1997-99

San Diego County Base Hospital Physicians Committee, 1997-2006

San Diego County Trauma Audit Committee, 1997-2006

San Diego County Prehospital Audit Committee, 1997-2006

Committee on Prehospital Stroke Triage, San Diego County Medical Society, 1998

Chair, San Diego County Prehospital Audit Committee, 1998-2000

Steering Committee, San Diego County Metropolitan Medical Strike Team, 1998-2001

Chair, CPR Subcommittee, San Diego County Prehospital Audit Committee, 1998-2002

City of San Diego EMS Physicians' Advisory Committee, 1998-2003

City of San Diego Prehospital Cardiac Advisory Committee, 1998-2003

Chair, San Diego County Aeromedical Protocol Committee, 1998-2006

San Diego County Committee on Pediatric Emergency Medicine, 1998-2006

Program Committee, CAL/ACEP Scientific Assembly, 1998-2001 (Co-Chair for 1999-2001)

Awards Committee, CAL/ACEP Scientific Assembly, 1999-2001

EMS Committee, San Diego County Metropolitan Medical Strike Team, 1999-2001

San Diego Metropolitan Medical Response System Bio-Terrorism Planning Group, 1999-2001

San Diego County Pediatric CPR Task Force, 1999-2000

San Diego Sheriff's Source Selection Committee, 2000

San Diego County EMS QA Net Prehospital Design Steering Committee, 2000-01

San Diego County SIPs (Serial Inebriate Program) Task Force, 2000-02

Chair, Research Subcommittee, San Diego County Prehospital Audit Committee, 2000-02

Education Committee, CAL/ACEP, 2000-03

San Diego County Paramedic Training Joint Advisory Committee, 2000-06

San Diego County Public Health Preparedness Team, 2001-06

EMS Section, American College of Emergency Physicians, 2001-06

Chair, Training Committee, San Diego County Metropolitan Medical Strike Team, 2001-02

Co-Chair, EMS Committee, CAL/ACEP, 2001-02

Policy Committee, CAL/ACEP, 2001-02

Task Force Leader, CAL/ACEP Scientific Assembly, 2001-02

PREVIOUS COMMITTEE MEMBERSHIPS, continued:

Governmental Affairs Committee, CAL/ACEP, 2001-02

Didactic Subcommittee, SAEM Program Committee, 2001-02

Program Mgmt Committee, San Diego County Metropolitan Medical Strike Team, 2001-03

Air Medical Transport Section, American College of Emergency Physicians, 2001-03

San Diego County Sheriff's Mortality Review Committee, 2001-03

San Diego County Sheriff's Pharmacy and Therapeutics Committee, 2001-03

SAEM EMS Interest Group, 2001-2006 (Co-chair 2003-04)

San Diego County EMS for Children (EMSC) Advisory Committee, 2002-05

Scientific Subcommittee, SAEM Program Committee, 2002-05

EMS Medical Director's Association of California, 2002-06

San Diego County Trauma Administrators Committee, 2002-06

Chair, San Diego County EMS Research Committee, 2002-06

Chair, San Diego County Paramedic Protocol Revision Committee, 2002-06

San Diego County Public Health Services Physicians Group, 2003-06

San Diego County Healthcare Advisory Committee on Terrorism, 2003-06

Member-at-large, EMDAC Officer Board, 2004-05

San Diego County Fire Chief's Association, 2004-06

San Diego County Sheriff's Helicopter Program Ad Hoc Advisory Committee, 2004-06

Chair, San Diego County HRSA Work Group, 2004-06

San Diego County Regional Helicopter Advisory Committee, 2004-06

San Diego County HRSA Executive Steering Committee, 2004-06

San Diego County Critical Care Transport Working Group, 2005-06

San Diego County Prehospital Patient Record IT Steering Committee, 2005-06

San Diego County Cardiac Advisory Committee, 2005-06

San Diego County Stroke Advisory Committee, 2005-06

San Diego County Emergency Medical Care Committee, 2006

Co-Chair, San Diego County Medical Society EMS Medical Oversight Committee, 2002-2006

Chair, EMS Committee, American Academy of Emergency Medicine California Chapter, 2000-2006

SAEM Program Committee, 2001-2007

Chair, Photography Subcommittee, SAEM Program Committee, 2002-2007

FUNDED RESEARCH:

- 1. Co-Investigator with Tom Neuman (PI) for evaluation of positional asphyxia in the hobble restraint position, funded by the County of San Diego, 1995--\$33,900
- 2. Co-Investigator, with Theodore Chan (PI), for evaluation of the Melker percutaneous cricothyrotomy kit in human cadavers, funded by Cook Medical Products, 1997--\$10,000
- 3. Co-Investigator with John Eisele (PI) for the evaluation of positional asphyxia in the hobble restraint position with weight on subjects' backs, funded by the American Academy of Forensic Sciences, 1998--\$2,500
- Co-Investigator, with Theodore Chan (PI), for study entitled, "The Impact of Oleoresin Capsicum Spray on Respiratory Function in Human Subjects in the Sitting and Prone Maximal Restraint Positions." Study funded by the National Institute of Justice, U.S. Department of Justice, 1998-99. UCSD No. 98-7107; USDOJ Federal Award #98-IJ-CX-0079. Amount: \$128,176
- 5. Principle Investigator (PI) for study entitled "Evaluation of Hurricaine anesthetic in patients with dyspepsia" funded by Beutlich Pharmaceuticals for, 2001. Amount: \$1,500
- 6. Co-Investigator, with Theodore Chan (PI), for evaluation of the Melker percutaneous cricothyrotomy kit in human cadavers, funded by Cook Medical Products, 2003. Amount: \$12,000
- 7. Co-Investigator, with David Hoyt (PI) for the Resuscitation Outcomes Consortium: UCSD / San Diego Resuscitation Research Center, funded by the NIH, 9/1/2004 to 6/30/2009. UO1 HL077908. Amount: \$2,250,522
- Co-Principal Investigator (Co-PI), with Theodore Chan, for study entitled, "The effect of Taser on Cardiac, Respiratory and Metabolic Physiology in Human Subjects." Study funded by the National Institute of Justice, U.S. Department of Justice, 10/1/2005 to 9/30/2007. UCSD No. 2006-0846; USDOJ Federal Award #98-IJ-CX-0079. Amount: \$213,941.49
- 9. Co-Investigator, with Daniel Davis (PI) for the study entitled, "ROC Interventional Trials: Hypertonic Resuscitation for Traumatic Injury, Trauma Epistry, PRIMED", funded by the NIH, 7/1/2006 to 6/30/2008. UO1 HL077863. Amount: \$331,320
- 10. Co-Investigator, with Daniel Davis (PI) for the, "ROC Cardiac Epistry", funded by the AHA, 7/1/2006 to 6/30/2008. Amount: \$133,427
- 11. Co-Investigator, with Theodore Chan (PI) for study entitled, "Multi-Center Study of the Impact of Nurse-Patient Ratios on Emergency Department Overcrowding." funded by the Emergency Medicine Foundation, 7/1/2007 to 6/30/2008. Amount: \$50,000
- 12. Principal Investigator (PI) for study entitled, "Evaluation of the Ventilatory and Respiratory Effects of a Restraint Chair on Human Subjects." Funded by the Institute for the Prevention of In-Custody Deaths, Inc, 1/1/07 to 12/31/07. Amount: \$11,658

FUNDED RESEARCH, continued:

- 13. Co-Investigator, with Edward Castillo (PI) for study entitled, "California ED Diversion Project Evaluation." funded by the California Healthcare Foundation, 5/15/2008 to 10/15/2008. Amount: \$50,990
- 14. Principal Investigator (PI) for study entitled, "Ventilatory Effects of Prone Restraint on Obese Human Subjects." Funded by the Institute for the Prevention of In-Custody Deaths, Inc, 1/1/09 to 12/31/09. Amount: \$13,423
- Principal Investigator (PI) for study entitled, "FAST TRAC: Finding ACS with Serial Troponin Testing for Rapid Assessment." Funded by the Nanosphere, Inc. 2/1/09 to 2/1/11. Amount: \$85,000
- Principal Investigator (PI) for study entitled, "CHOPIN: Copentin Helps in the Early Detection of Patients with Acute Myocardial Infarction." Funded by Brahms AG, 8/1/09 to 8/1/12. Amount: \$103,950
- Co-Investigator, with Daniel Davis (PI) for the study titled, "Resuscitation Outcomes Consortium (ROC) Regional Clinical Center, San Diego", funded by the NIH, 3/1/2010 to 2/28/2015. U01 HL077908-06. Amount: \$755,998
- 18. Co-Investigator, with Christine Hall for the study titled, "RESTRAINT Risk of dEath in Subjects That Resisted: Assessment of Incidence and Nature of faTal events", funded by the Vancouer Island Health Authority. 7/1/09 to 6/30/2011. Amount \$50,000
- Co-Investigator for study titled "STAT MERCURY: Studying the Treatment of Acute HyperTension: A Multicenter EmeRgency Department Clevidipine Utilization Restry" funded by the Medicines Company 7/27/10 to present. Amount \$1400

PUBLICATIONS:

Books / Book Chapters

- 1. Vilke GM: Head Trauma, Blunt. In: <u>The 5 Minute Emergency Medicine Consult.</u> Rosen P, Barkin RM, Hayden SR, Schaider JJ, Wolfe R (Eds.); Philadelphia: Lippincott Williams & Wilkins, 1999, pp 472-473.
- 2. Vilke GM: Head Trauma, Penetrating. In: <u>The 5 Minute Emergency Medicine Consult.</u> Rosen P, Barkin RM, Hayden SR, Schaider JJ, Wolfe R (Eds.); Philadelphia: Lippincott Williams & Wilkins, 1999, 474-475.
- 3. Atlas of Emergency Procedures. Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2001.
- Vilke GM: Urethral Catheterization. In: <u>Atlas of Emergency Procedures</u>. Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2001, pp 124-127.
- 5. Vilke GM: Cystostomy. In: <u>Atlas of Emergency Procedures</u>. Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2001, pp 128-129.
- 6. Vilke GM: Bladder Aspiration. In: <u>Atlas of Emergency Procedures</u>. Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2001, pp 130-131.
- 7. Vilke GM: Dorsal Slit in Phimosis. In: <u>Atlas of Emergency Procedures</u>. Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2001, pp 132-133.
- 8. Vilke GM: Manual Paraphimosis Reduction. In: <u>Atlas of Emergency Procedures</u>. Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2001, pp 134-135.
- 9. Vilke GM: Zipper Removal. In: <u>Atlas of Emergency Procedures</u>. Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2001, pp 136-137.
- 10. Hayden SR, Silfvast T, Deakin CD, Vilke GM: Surgical Procedures. In: <u>Prehospital Trauma Care</u>. Soreide E, Grande CM (Eds.); New York: Marcel Dekker, Inc., 2001, pp 323-354.
- 11. Hayden SR, Thierbach A, Vilke GM, Sugrue M: Patient Turnover: Arriving and Interacting in the Emergency Department. In: <u>Prehospital Trauma Care</u>. Soreide E, Grande CM (Eds.); New York: Marcel Dekker, Inc., 2001, pp 737-751.
- Vilke GM: Cervical Spine Injury, Adult. In: <u>Rosen and Barkin's 5-Minute Emergency</u>
 <u>Medicine Consult</u> (second edition). Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P
 (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2003, pp 1048-1049.

Books / Book Chapters

- Vilke GM: Extremity Trauma, Penetrating. In: <u>Rosen and Barkin's 5-Minute Emergency</u>
 <u>Medicine Consult</u> (second edition). Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P
 (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2003, pp 394-395.
- 14. Vilke GM: Head Trauma, Blunt. In: Rosen and Barkin's 5-Minute Emergency Medicine Consult (second edition). Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2003, pp 476-477.
- 15. Vilke GM: Head Trauma, Penetrating. In: Rosen and Barkin's 5-Minute Emergency Medicine Consult (second edition). Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2003, pp 478-479.
- 16. Vilke GM: Ring/Constricting Band Removal. In: Rosen and Barkin's 5-Minute Emergency Medicine Consult (second edition). Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2003, pp 980-981.
- 17. Vilke GM: Warts. In: Rosen and Barkin's 5-Minute Emergency Medicine Consult (second edition). Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2003, pp 1222-1223.
- 18. Vilke GM: Fournier's Gangrene. In: Rosen and Barkin's 5-Minute Emergency Medicine Consult (second edition). Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2003, pp 430-431.
- 19. Vilke GM: Variants of Normal. In: <u>ECG in Emergency Medicine and Acute Care.</u> Chan TC, Brady WJ, Harrigan RA, Ornato JP, Rosen P (Eds.); Philadelphia: Elsevier Mosby, 2005, pp 12-15.
- 20. Vilke GM: Keloid Formation. In: <u>Greenberg's Text-Atlas of Emergency Medicine</u>. Greenberg MI, Hendrickson RG, Silverberg M (Eds.); Philadelphia: Lippincott Williams and Wilkins, 2005, p 684.
- 21. Vilke GM: Distal Digital Amputation. In: <u>Greenberg's Text-Atlas of Emergency Medicine</u>. Greenberg MI, Hendrickson RG, Silverberg M (Eds.); Philadelphia: Lippincott Williams and Wilkins, 2005, p 685.
- 22. Vilke GM: Painful Syndromes of the Hand and Wrist. In: <u>Harwood-Nuss' Clinical Practice of Emergency Medicine</u> fourth edition. Editor-in-chief: AB Wolfson. Philadelphia: Lippincott Williams and Wilkins, 2005, pp 536-540.
- 23. Vilke GM: Neck Holds. In: <u>Sudden Deaths in Custody</u>. Ross DL, Chan TC (Eds.); New Jersey: Humana Press, 2006, pp 15-38.

Books / Book Chapters

- Sloane C, Vilke GM: Riot Control Agents, Tasers and Other Less Lethal Weapons.
 In: <u>Sudden Deaths in Custody</u>. Ross DL, Chan TC (Eds.); New Jersey: Humana Press, 2006, pp 113-138.
- 25. Vilke GM: Clostridium botulinum Toxin (Botulism) Attack. In: <u>Disaster Medicine</u>. Ciottone GR (Ed.); Boston: Elsevier Mosby, 2006, pp 701-704.
- Vilke GM: Viral Agents (Section 10, Part 2). Section Editor. In: <u>Disaster Medicine</u>. Ciottone GR (Ed.); Boston: Elsevier Mosby, 2006, pp 661-697.
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- 129. Marsan Jr RJ, Vilke GM, Chan TC, Davis DP, Stepanski BM. Description and Efficacy of Treatment of Hemodynamically Significant Bradycardia in a Large, Urban, Pacing-capable EMS System. Ann Emerg Med 2007; 50(3):S80.
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- 133. Barnard AC, Sloane C, Vilke GM, Chan TC, Neuman TS, Kolkhorst FW. Physiological effects of TASER X-26 after intense exercise. Med and Sci in Sports and Exercise 2008; 40(Suppl 5): S475.
- 134. Chan TC, Killeen JP, Vilke GM, Guss DA, Jones K, Marshall J, Moore T, Castillo EM. Impact of mandated nurse-patient ratios on emergency department crowding. Ann Emerg Med 2008; 52(4):S44.
- Davis D, Fong T, Lawrence B, Vilke GM. Psychosocial variables influence the decision to call 9-1-1 in emergency department patients with abdominal pain. Ann Emerg Med 2008; 52(4):S71.

- 136. Bizek G, Castillo EM, Vilke GM, Chan TC. Characteristics and rates of rewarming of emergency department patients with moderate to severe accidental hypothermia. Ann Emerg Med 2008; 52(4):S105-6.
- 137. Ramanujam P, Castillo EM, Patel E, Vilke GM, Wilson M, Dunford J. Pre hospital transport time intervals for acute stroke patients. Ann Emerg Med 2008; 52(4):S154.
- 138. Vilke GM, Killen J,P, Chan TC, Crumpacker J, Castillo EM. Risk factors and characteristics of falls among emergency department elderly patients. Ann Emerg Med 2008; 52(4):S160.
- 139. Marsan R, Castillo EM, Chan TC, Stepanski B, Vilke GM: Comparison of prehospital retrospective chart review to prospectively obtained data. Acad Emerg Med 2009;16(4)Suppl 1: S85-S86.
- 140. Killeen D, Killeen J, Castillo EM, Chan TC, Vilke GM: Emergency department patient evaluation of internet and email access for healthcare information. Acad Emerg Med 2009;16(4)Suppl 1: S132-S133.
- 141. Sloane CM, Chan TC, Kohlkorst F, Castillo EM, Neuman T, Vilke GM: Can a restraint chair cause respiratory or ventilatory compromise? Acad Emerg Med 2009;16(4)Suppl 1: S137.
- 142. Castillo, EM, Vilke GM, Killeen J, Guss DA, Marshall J, Chan TC: Impact of mandated nurse-patient ratios on ED medication delivery. Acad Emerg Med 2009;16(4)Suppl 1: S157-S158.
- 143. Slattery D, Pierson B, Stanley K, Vilke GM: Bridging the training gap in cardiac arrest: identification of cardiac arrest decision-making deficits in lay rescuers. Acad Emerg Med 2009;16(4)Suppl 1: S182.
- 144. Slattery D, Stanley K, Vilke GM, Pierson B: non-medical responders are not accurate at identifying agonal respirations? Acad Emerg Med 2009;16(4)Suppl 1: S182.
- 145. Castillo EM, Vilke GM, Killeen J, Guss DA, Feinberg R, Friedman L, Chan TC: Factors associated with community clinic follow-up from an ED internet-based referral system. Acad Emerg Med 2009;16(4)Suppl 1: S247-S248.
- 146. Marmon J, Castillo EM, Vilke GM, Killeen J, Chan TC: The effect of admitting team resident turnover on emergency department patient flow. Acad Emerg Med 2009;16(4)Suppl 1: S257-S258.

- 147. Castillo EM, Vilke GM, Williams M, Turner P, Boyle J, Chan TC. Collaborative to decrease ambulance diversion: The California ED Diversion Project. Ann Emerg Med 2009; 54(3):S79.
- 148. Lev R, Castillo EM, Vilke GM, Chan TC. Multi-center study of left without treatment rates from Emergency Departments serving a large metropolitan region. Ann Emerg Med 2009; 54(3):S86.
- 149. Chan TC, Vilke GM, Killeen JP, Gus DA, Marshall J, Castillo EM. Impact of mandated nurse-patient ratios on time to antibiotic administration in the Emergency Department. Ann Emerg Med 2009; 54(3):S97.
- 150. Vilke GM, Robertson NB, Castillo EM, Killeen JP, Chan TC. Erythrocyte sedimentation rate compared to C-reactive protein as a screening marker in the Emergency Department. Ann Emerg Med 2009; 54(3):S121.
- 150. Castillo EM, Chan TC, Luu B, Prabhakar N, Vilke GM. Factors Associated With Injuries Among Subjects and Deputies During Law Enforcement Use of Force Events. Ann Emerg Med 2010; 56(3):S138.
- 151. Wilson MP, MacDonald KS, Vilke GM, Feifel D. Potential Complications of Olanzapine Benzodiazepines Compared to Haloperidol Benzodiazepines In Emergency Department Patients. Ann Emerg Med 2010; 56(3):S155.
- 152. Killeen JP, Castillo EM, Vilke GM, Marshall JB, Chan TC. Impact of Mandated Nurse-Patient Ratios on Emergency Department Discharge Time. Ann Emerg Med 2010; 56(3):S182.
- 153. Chan TC, Castillo EM, Humber DM, Killeen JP. Frequency of Pharmacy Interventions and Emergency Overrides Following Implementation of Electronic Pharmacy Review In the Emergency Department. Ann Emerg Med 2010; 56(3):S343.
- 154. Chan TC, Castillo EM, Vilke GM, Killeen JP. Do Computerized Medication Alerts Change Medication Orders In the Emergency Department. Ann Emerg Med 2010; 56(3):S372.

ORAL PRESENTATIONS AT NATIONAL MEETINGS:

- 1. Chan TC, Buchanan J, Anderson M, Vilke GM: Patient ethnicity and age in prehospital emergency ambulance use and acuity rates. NAEMSP Mid-Year Meeting, Lake Tahoe, Nevada; July 1998.
- 2. Vilke GM, Dunford JV, Buchanan J, Chan TC: Are opiate overdose deaths related to patient release after naloxone? ACEP Research Forum, San Diego, California; October 1998.
- 3. Gerling MC, Hamilton RS, Davis DP, Morris GF, Vilke GM, Hayden SR: The effects of cervical spine immobilization on technique and laryngoscope blade selection on an unstable cervical spine injury in a cadaver model of intubation. ACEP Research Forum, San Diego, California; October 1998.
- 4. Vilke GM, Chan TC, Ray LU, Anderson ME: Use of prehospital crash injury data to assess regional automobile safety restraint use. NAEMSP Annual Meeting, Marcos Island, Florida; January 1999.
- Chew GS, Chan TC, Bramwell K, Davis DP, Vilke GM: Does gastric distention from air insufflation affect the accuracy of the syringe esophageal detector device in detecting esophageal intubation? SAEM Western Regional Research Forum, Redondo Beach, California; March 1999.
- 6. Davis DP, Kimbro T, Vilke GM: The use of midazolam for prehospital rapid-sequence intubation may be associated with a dose-related increase in hypotension. NAEMSP Annual Meeting, Dana Point, California; January 2000.
- 7. Marino AT, Sharieff G, Gerhart AE, Chan TC, Vilke GM: The efficacy and complication rate of prehospital midazolam for the treatment of pediatric seizures. NAEMSP Annual Meeting, Dana Point, California; January 2000.
- 8. Eisele JW, Chan T, Vilke G, Neuman T, Clausen J: Effect of weight placed on the back of subjects in the hobble restraint position. American Academy of Forensic Sciences Annual Meeting, Reno, Nevada; February 2000.
- Chan TC, Vilke GM, Neuman TS, Clark RF, Clausen JL: The effect of oleoresin capsicum spray inhalation on pulmonary and respiratory function. SAEM Western Regional Research Forum, Portland, Oregon; April 2000.
- 10. Vilke GM, Chan TC, Seltzer A, Fisher R, Dunford JV: Outcome of out-of-hospital refusal of paramedic transport by parents of pediatric patients. State of California EMS Authority EMS for Children Annual Conference, San Diego, California; November 2000.
- 11. Deitch S, Vilke GM, Marino A, Vroman D, Chan TC: Effect of prehospital use of nitroglycerine on EKG findings in patients with chest pain. American Academy of Emergency Medicine Annual Conference, Orlando, Florida; March 2001.

ORAL PRESENTATIONS AT NATIONAL MEETINGS, continued:

- 12. Vilke GM, Steen PJ, Smith AM, Chan TC: Pediatric intubation by paramedics: The San Diego County experience. SAEM Western Regional Research Forum, Irvine, California; March 2001.
- 13. Davis DP, Ochs M, Hoyt DB, Dunford JV, Vilke GM: The use of the Combitube as a salvage airway device for paramedic RSI. SAEM Western Regional Research Forum, Irvine, California; March 2001.
- 14. Chan TC, Dunford JV, Vilke GM: Impact of a community multidisciplinary homeless outreach team. SAEM Annual Meeting, Atlanta, Georgia; May 2001.
- 15. Chan TC, Dunford JV, Vilke GM: Impact of a community multidisciplinary homeless outreach team. CAL/ACEP Scientific Assembly, Santa Clara, California; June 2001. (Won Award for Best Oral Presentation)
- 16. Valentine C, Davis D, Ochs M, Hoyt D, Bailey D, Vilke G: The use of the Combitube as a salvage airway device for paramedic rapid sequence induction. NAEMSP Annual Meeting, Tucson, Arizona; January 2002.
- 17. Vilke GM, Lev R, Castillo EM, Metz MA, Murrin PA, Chan TC: Prospective countywide trial to decrease ambulance diversion hours. SAEM Western Regional Meeting, Scottsdale, Arizona; April 2003.
- 18. Vilke GM, Lev R, Castillo EM, Murrin PA, Chan TC: Prospective countywide trial to decrease ambulance diversion hours. SAEM Annual Meeting, Boston, Massachusetts, May 2003.
- 19. Vilke GM, Lev R, Castillo EM, Metz MA, Murrin PA, Chan TC: San Diego County improved patient destination trial to decrease emergency department diversion hours and diverted patients. American College of Emergency Physicians Research Forum, Boston, Massachusetts; October 2003.
- 20. Vilke G, Castillo E, Metz M, Murrin P, Ray LU, Lev R, Chan T: Community trial to decrease ambulance diversion of patients and hours. NAEMSP National Conference, Tucson, Arizona; January 2004.
- 21. Marcelyn Metz, Patricia Murrin, Gary M. Vilke: The three-phase EMS cardiac arrest model for ventricular fibrillation. ENA Annual Meeting; San Diego, California; October 2004.
- 22. Michalewicz, BA, TC Chan, GM Vilke, SS Levy, TS Neuman, and FW Kolkhorst: Ventilatory and metabolic demands during aggressive physical restraint in healthy adults. American College of Sports Medicine Annual Meeting, Denver, CO; June 2006. [Medicine and Science in Sports and Exercise 38(5 Supplement), 2006].

SELECTED SPEAKING ENGAGEMENTS:

- 1. "Death of a Child: How to Treat the Survivors" -- Grand Rounds, Department of Emergency Medicine, UCSD Medical Center; April 1996.
- 2. "Assessing GCS and the Field Neurologic Exam" -- Palomar College Paramedic Training; June 1998.
- 3. "Prehospital Shock"; "Management of the Field Trauma Patient" -- Mercy Air, Ventura County Lecture Series; August 1998.
- 4. "ER: Not Just a Television Show, But a Field of Research" -- Howard Hughes Foundation Lecture Series, University of California, San Diego; November 1998.
- 5. "Multi-Casualty Incident" -- UCSD Medical Center Trauma Conference; March 1999.
- 6. "Managing the Prehospital Multi-Casualty Incident" -- Southwestern College Paramedic Training Institute; May 1999.
- 7. "Aeromedical Transport: The Past and Current Environment" -- Trauma Morbidity and Mortality Conference, Children's Hospital, San Diego, California; July 1999.
- 8. "Altitude Medicine"; "Carbon Monoxide Poisoning and Treatment Options"; "Aeromedical Transport Options"; "Emergent Airway Management Options" -- Rural Emergency Medicine Conference, Jackson Hole, Wyoming; August 1999.
- 9. "Abdominal and Chest Trauma in Sports" -- First Annual San Diego County Athletic Coaches Workshop, San Diego, California; June 2000.
- 10. "Tabletop Discussion on Chemical Weapon of Mass Destruction" -- Facilitator of Tabletop Training for San Diego County Metropolitan Medical Strike Team; July 2000.
- 11. "Pediatric IV Access"; "Spinal Immobilization"; "Children with Special Health Care Needs"; "Cardiovascular Emergencies" -- American Academy of Pediatrics Pediatric Education for Prehospital Professionals Conference, San Diego, California; November 2000.
- 12. "New Frontiers in Field Management of Pediatric Status Epilepticus" -- State of California EMS Authority Annual EMS for Children Conference, San Diego, California; November 2000.
- 13. "EMS Medical Control: Avoiding your Day in Court" -- ACEP's Emergency Medicine Connection Conference, San Diego, California; March 2001.
- 14. "Pediatric Intubations by Paramedics" -- San Diego Chapter of the Committee on Pediatric Emergency Medicine; April 2001.
- 15. "Warfare and Terrorism: A Review of Chemical Agents -- San Diego County Metropolitan Medical Strike Team Training; August 2001.

- "Bioterrorism and San Diego County" -- Council of Community Clinics Meeting; October 2001.
- 17. "Bioterrorism and San Diego County Readiness" -- CTN interview with Bill Horn; October 2001.
- 18. "Future of Prehospital Care" -- Keynote Speaker, Southwestern Paramedic College Graduation; November 2001.
- 19. "Biological Agents for Terrorism" -- San Diego County Metropolitan Medical Strike Team Training; November 2001.
- 20. "Clinical Aspects of Bioterrorist Agents" -- Palomar Paramedic College; November 2001.
- 21. "Clinical Aspects of Bioterrorism" -- Grand Rounds, Fallbrook Hospital; January 2002.
- 22. "Bioterrorism and San Diego County Readiness" -- Poway Town Hall Meeting; January 2002.
- 23. "Bioterrorist Preparedness" -- National Medical Association, San Diego County; January 2002.
- 24. "Chemical Agents of Terrorism: Diagnosis and Treatment" -- Topics and Advances in Internal Medicine, San Diego, California; March 2002.
- 25. "Bioterrorism: Implications for the Legal and Domestic Community" -- Thomas Jefferson School of Law, San Diego, California; April 2002.
- 26. "Prehospital Management of Pediatric Seizures" -- EMS-Children Annual Conference; San Diego, California; November 2002.
- 27. "Paramedicine Past, Present and Future" -- Keynote Speaker, Southwestern Paramedic College Graduation; San Diego, California; December 2002.
- 28. "Medical Group Preparedness: How would you Respond to a Possible Victim of Bioterrorism?" -- Bioterrorism Preparedness Training Conference; San Diego California; January 2003.
- 29. "Update on Bioterrorism" -- The Western States Winter Conference on Emergency Medicine; Park City, Utah; January 2003.
- 30. "Academic Emergency Medicine and Research Opportunities" -- San Diego Health Information Association, San Diego, California; February 11, 2003.
- 32. "Blast and Radiological Injuries: Myths and Realities" -- San Diego County Metropolitan Medical Strike Team Training; San Diego, California; August 2003.

- 33. "Clinical Aspects of Bioterroism" -- American Correctional Health Services Association, California and Nevada Chapter Annual Conference, San Diego, California; September 2003.
- 34. "Bioterrorism" -- UCSD/SDSU General Preventive Medicine Residency Lecture Series, La Jolla, California; October 2003.
- 35. "Prehospital Pediatric Airway Obstruction" Children's Hospital Grand Rounds, San Diego, California; July 2004.
- 36. "Future of Healthcare in San Diego: Trends Impacting our Delivery System" -- San Diego Organization of Healthcare Leaders, San Diego, California; August 2004.
- 36. "Firestorm 2003" -- Children's Hospital Grand Rounds, San Diego, California; January 2004.
- 37. "EMS research: Unique ethical and regulatory issues" -- Applied Research Ethics National Association Annual meeting, San Diego, California; October 2004.
- 38. "What happens when you call 911?" -- San Diego Sports Medicine Foundation, San Diego, California; October 2004.
- 39. "Making the Metropolitan Medical Response System Work for You" -- Emergency Response 2004 Conference, San Diego, California; November 2004.
- 40. "San Diego County Emergency Department Ambulance Bypass Past, Present, Future" -- Urgent Matters Briefing, San Diego, California; November 2004.
- 41. "San Diego County Emergency Department Ambulance Bypass Past, Present, and Future" -- San Diego Community Emergency Departments, San Diego, California; December 2, 2004.
- 42. "Emergency Response Management for Efficiency of Care and Fiscal Consideration" -- American Correctional Health Services Association, Oakland, California; April 2, 2005.
- 43. "Conducted Energy Devices Medical Updates and Issues" -- Police Executive Research Forum, Houston, Texas; October 18, 2005.
- 44. "Conducted Energy Devices Proximity Deaths and Medical Response" -- 2005 Critical Issues in Policing Series, Police Executive Research Forum, San Diego, California; December 8, 2005.
- 45. "Conductive Electrical Devices (Tasers®) and Patients with Excited Delirium for Law Enforcement and Emergency Medical Personnel" -- The U.S. Metropolitan Municipalities EMS Medical Directors Annual Meeting, Dallas, Texas; February 16, 2006.
- 46. "Tasers and Sudden Death" -- Keynote speaker at One Day Symposium on In-Custody Deaths by the Florida Sheriffs Association, Orlando, Florida; June 1, 2006.

- 47. "Medical Aspects of the Use of Force Continuum" Department of Justice Community Oriented Policing Services (COPS) Conference, Washington, DC; July 29, 2006.
- 48. "Resuscitation Outcomes Consortium" -- 7th Annual University of California Neurotrauma Meeting, Carmel, California; August 3, 2006.
- 49. "Use of Force: Sudden Death Myths and Excited Delirium" -- The Commission of Accreditation for Law Enforcement Agencies (CALEA) Less Lethal Technology Working Group Meeting, Washington, DC; September 10, 2006.
- 50. "Police In-Custody Deaths and the Taser Controversy" -- UCSD/SDSU General Preventive Medicine Residency Lecture Series, La Jolla, California; September 2006.
- 51. "Conductive Energy Devices: The medical aspects of Taser Electronic Control Devices (ECDs) and other Energy Devices" Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 16-17, 2006.
- 52. "Cardiac, Respiratory and Metabolic Effects of EMD" Study of Deaths Following Electro Muscular Disruption, Meeting of the Chief Medical Panel for the National Institute of Justice. Washington D.C.; January 9, 2007.
- 53. "The Medical Implications of Tasers and the Impact on EMS" National Association of EMS Physicians National Conference. Naples, FL; January 12, 2007.
- 54. "Excited Delirium" Solutions For Corrections Seminar for the California State Sheriff's Association. Ontario, CA; February 7, 2007.
- 55. "Excited delirium, positional asphyxia and restraint" -- EMS Today Conference, Baltimore, Maryland; March 10, 2007.
- 56. "Medical implications of Tasers and other Conductive Energy Devices" -- EMS Today Conference, Baltimore, Maryland; March 10, 2007.
- 57. "Excited Delirium" -- American Correctional Health Services Association, Oakland, California; September 19, 2007.
- 58. "Human Physiologic Effects of Tasers" Study of Deaths Following Electro Muscular Disruption, Meeting of the Chief Medical Panel for the National Institute of Justice. Washington D.C.; September 27, 2007.
- 59. "The clinical impacts of TASER and other Conductive Energy Devices on Humans: A Review of the latest Medical Research" Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 28-30, 2007.

- 60. "Physiological Effects of Tasers" The City Council of Miami-Dade. Miami, Florida; January 17, 2008.
- 61. "Excited Delirium: What is it? Why does it kill? What do we need to know about it? Western States Winter Conference on Emergency Medicine. Park City, Utah, February 8, 2008.
- 62. "Medical Effects of Tasers" The City Council of Houston, Houston, Texas; March 10, 2008.
- 63. "Less Lethal Weapons" Emergency Nurses Association, San Diego Chapter. San Diego, California; April 18, 2008.
- 64. "The Clinical Impacts of TASER and other Conductive Energy Devices on Humans and Why People Die Afterwards" -- American Correctional Health Services Association, San Diego, California; September 17, 2008.
- 65. "Police In-Custody Deaths and Excited Delirium" -- UCSD/SDSU General Preventive Medicine Residency Lecture Series, La Jolla, California; October 2008.
- 66. "The Clinical Impacts of TASER and other Conductive Energy Devices on Humans" Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; October 29, 2008.
- 67. "Agitated Delirium Role of Illicit Drug Use in Sudden Restraint Death" Western Medical Toxicology Fellowship Conference. San Diego, California; April 29, 2009.
- 68. "Conducted Energy Devices: Are They Safe Options?" Excited Delirium Conference by the Canadian Institute for the Prevention of In-Custody Deaths, Inc. Niagara Falls, Canada; May 26, 2009.
- 69. "The Physiologic Effects of the Taser on Humans" UCSD Biomedical and Clinical Research Seminars. San Diego, California; June 2, 2009.
- 70. "The Taser-Plastic Surgery Interface" UCSD Department of Plastic Surgery Grand Rounds. San Diego, California; June 17, 2009.
- 71. "ECD Research Update and Safety Issues" Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 12, 2009.
- 72. "Use of the Restraint Chair and Positional Asphyxia" Southern California Jail Manager's Association. Temecula, California; January 21, 2010.
- 73. "Excited Delirium and TASERs: What Physicians Need to Know" Grand Rounds Scripps Encinitas Hospital. Encinitas, California; July 15, 2010.

Curriculum Vitae Gary M. Vilke, M.D., FACEP, FAAEM

74. "Excited Delirium and TASERs: What Physicians Need to Know" – Grand Rounds University Medical Center. Las Vegas Nevada; August 10, 2010.